

FIG. 1 is a block diagram of a prior art system 100. The system 100 includes a first coupler 170 and a second coupler 180. The first coupler 170 is connected to an input 110 and an output 190. The second coupler 180 is connected to an input 120 and an output 140. A signal path 150 is connected between the first coupler 170 and the second coupler 180. A signal path 160 is connected between the second coupler 180 and the output 140. A signal path 130 is connected between the input 110 and the first coupler 170. A signal path 140 is connected between the second coupler 180 and the output 140.

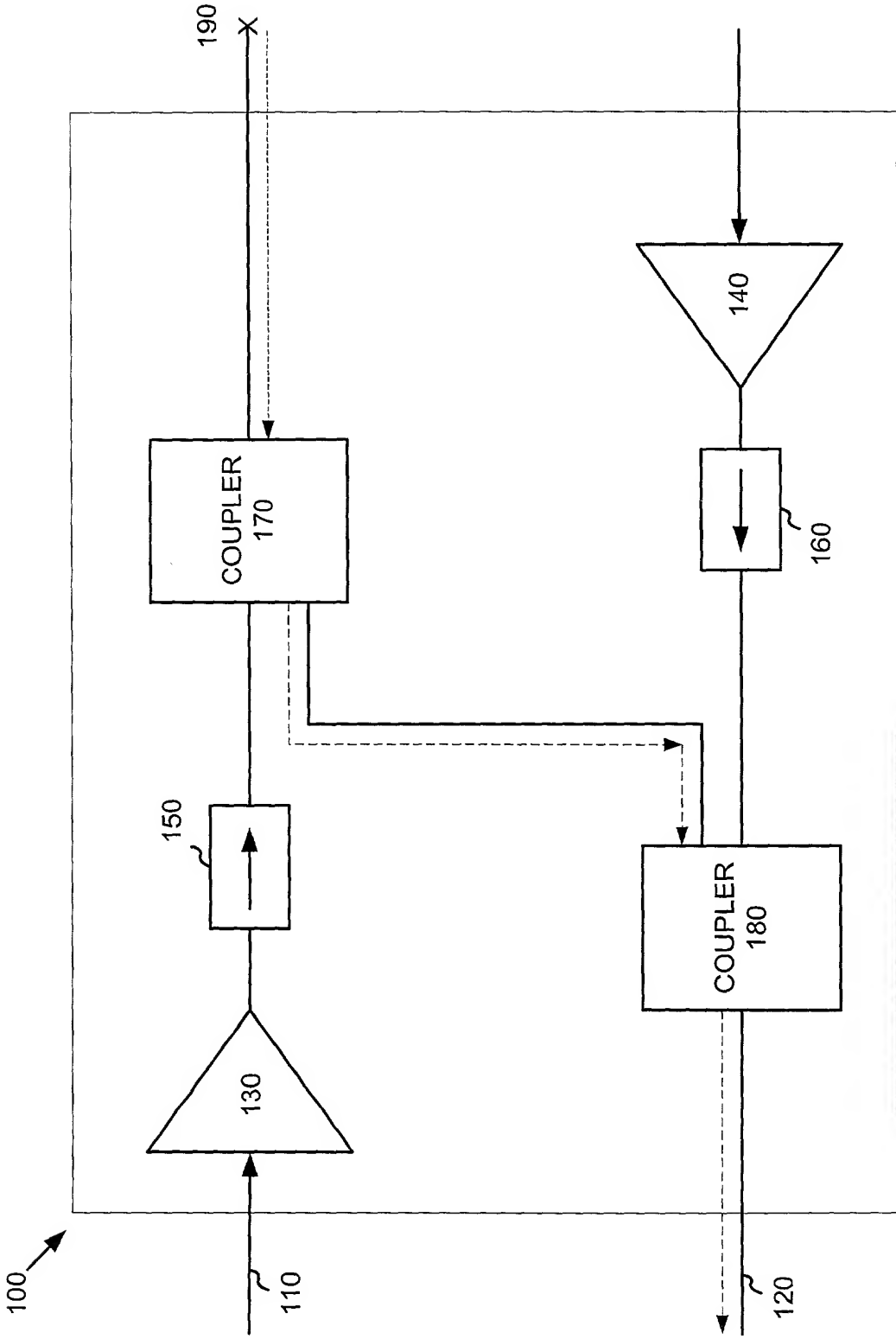


FIG. 1
(PRIOR ART)

Optical data signal input to the pump signal combiner 208 and the pump signal combiner 214. The pump signal combiner 208 and the pump signal combiner 214 are connected to the coupler 212 and the coupler 214. The pump signal combiner 208 and the pump signal combiner 214 are connected to the pump signal combiner 208 and the pump signal combiner 214.

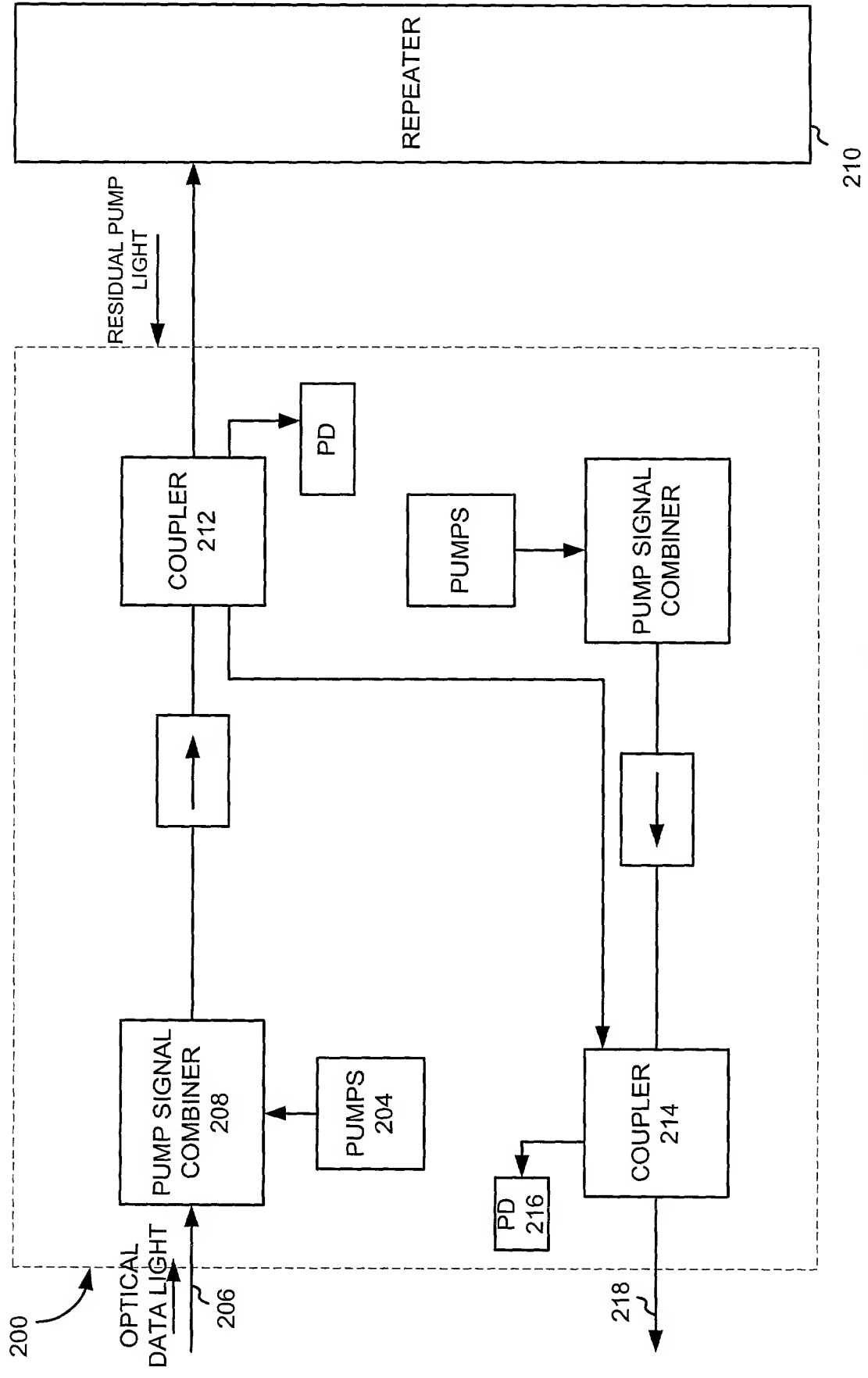


FIG. 2

300

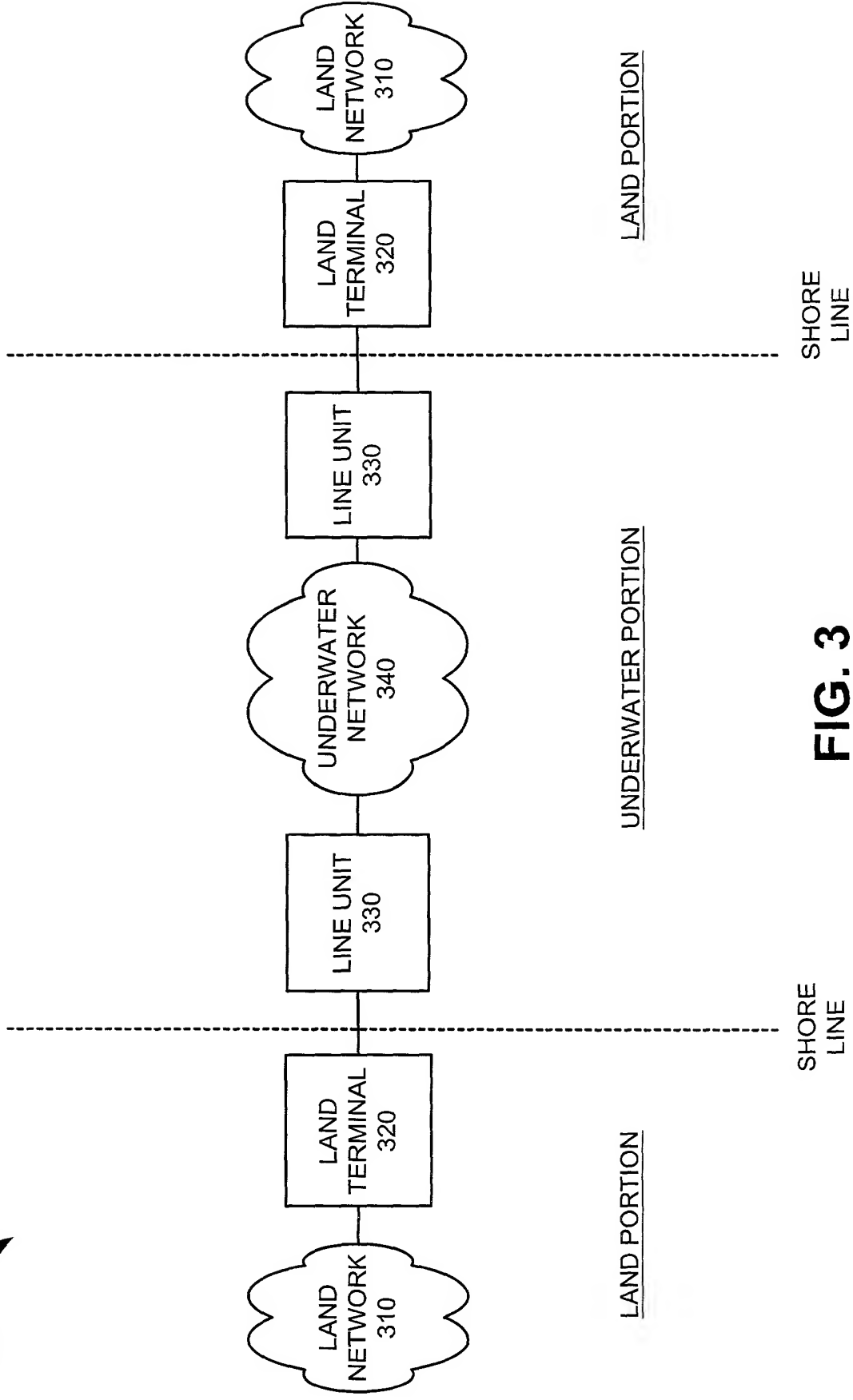


FIG. 3

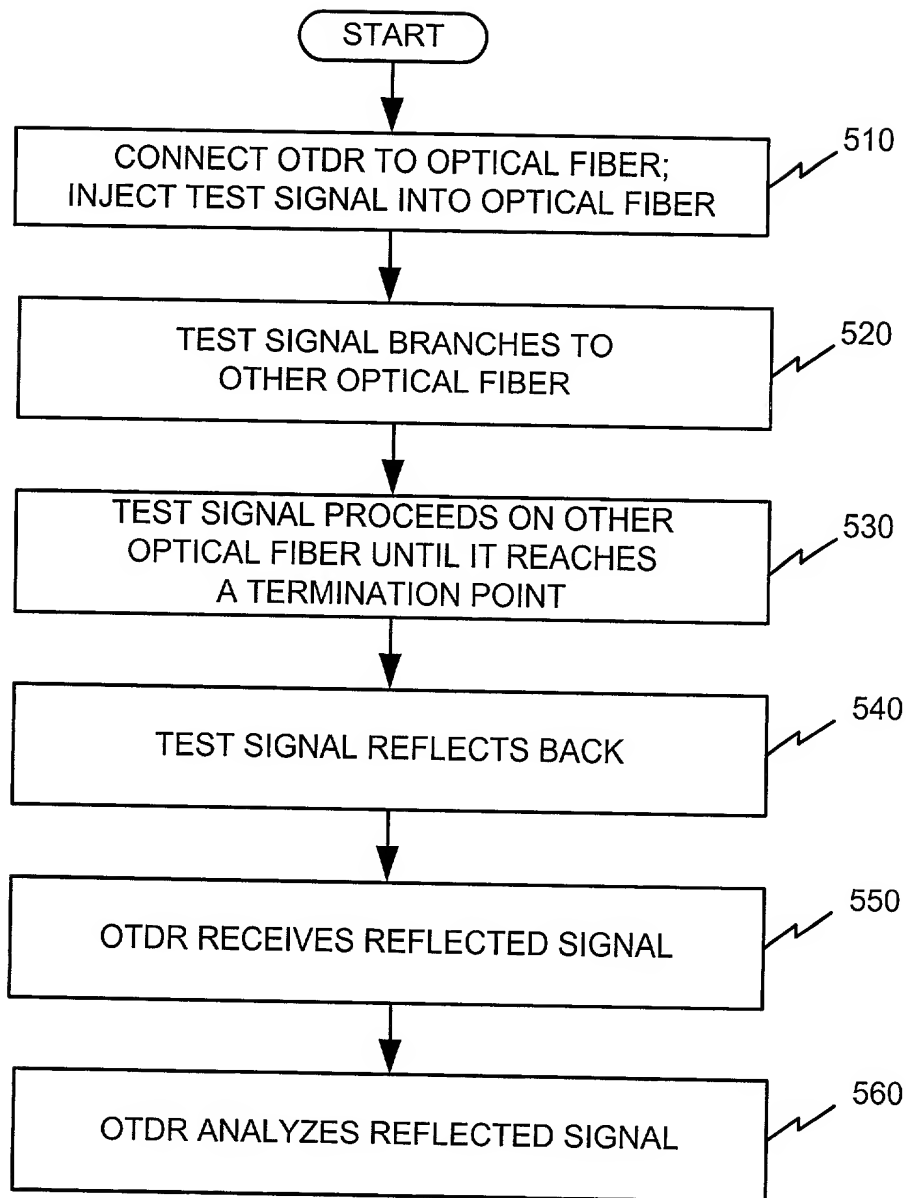


FIG. 5